

Panasonic[®]

Operating Instructions Wide LCD TV

Model No. **TX-23LX60A**



HDMI[™]
HIGH-DEFINITION MULTIMEDIA INTERFACE

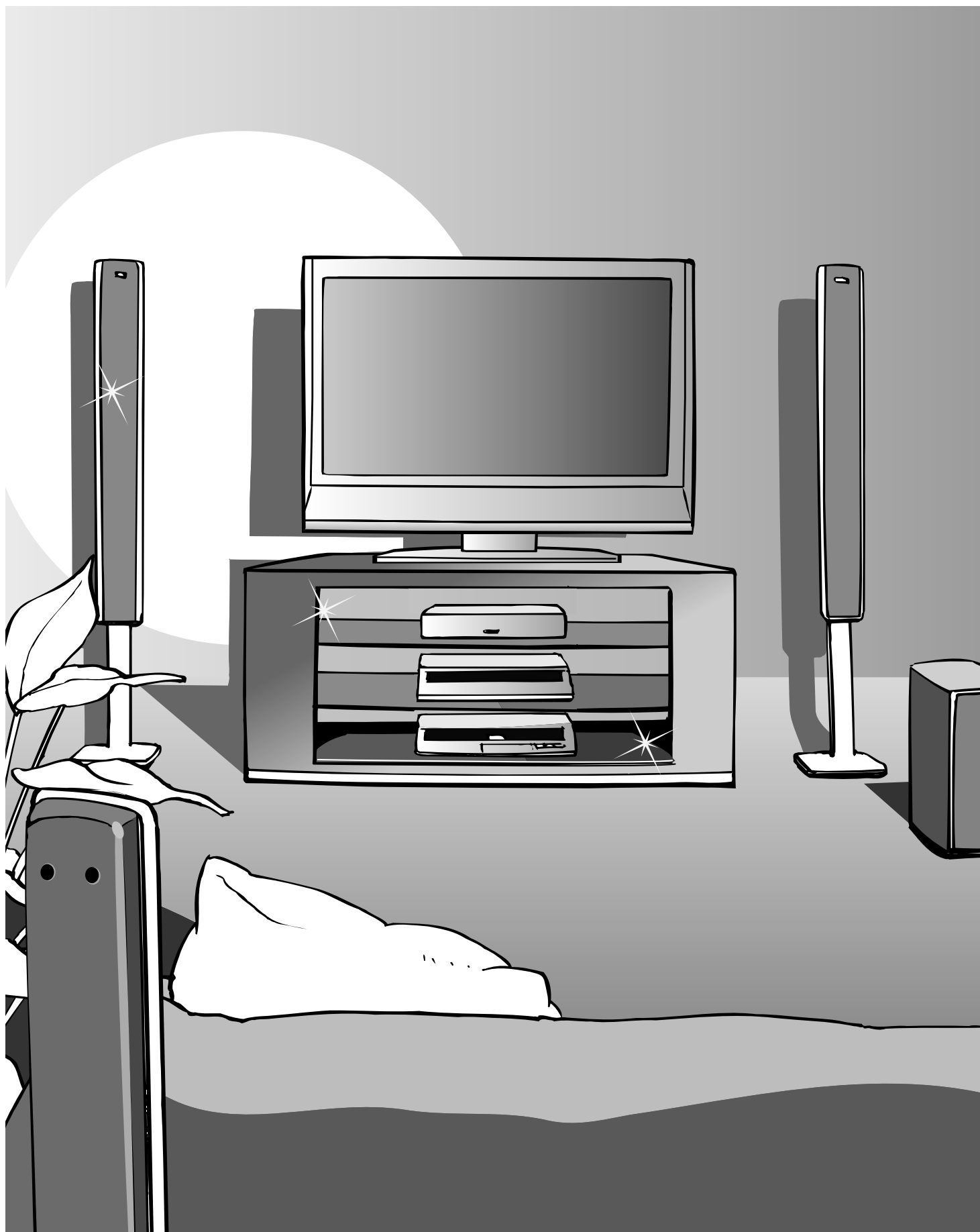
English

Please read these instructions before operating your set and retain them for future reference.
The images shown in this manual are for illustrative purposes only.

TQB0A0155-1

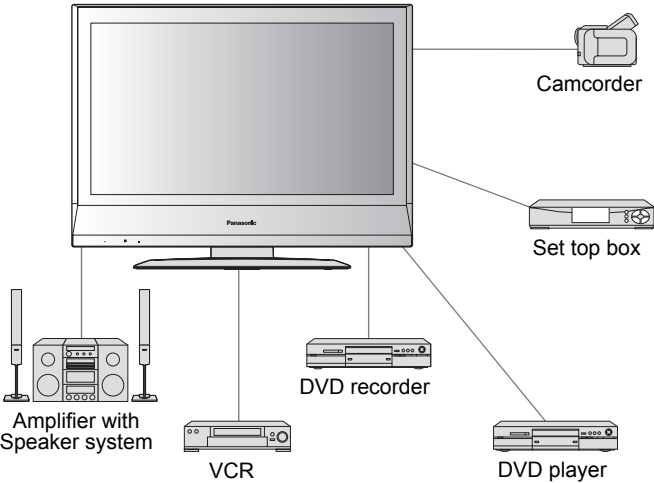
Turn your own living room into a movie theatre!

Experience an amazing level of multi-



media excitement

Enjoy rich multi-media



Contents

Be Sure to Read

- Safety Precautions 4
(Warning / Caution)
- Maintenance 5

Preparations

- Accessories / Options 6
- Identifying Controls 7
- Connection 8
- Initial Setup 9

Enjoy your TV!

Basic Features

- Watching TV 10
- Watching Videos and DVDs 11
- Viewing Teletext 12

Advanced Features

- How to Use Menu Functions 14
(picture, sound quality, etc.)
- Editing and Setting Channels 16
- Auto Tuning 18
- External Equipment 20
(Control with HDMI / Connections)

FAQs, etc.

- Technical Information 24
- FAQs 27
- Licence 29
- Specifications 29
- WARRANTY 31

Preparations

Viewing

Advanced

FAQs, etc.

Safety Precautions

Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- Ensure the grounding pin on the mains plug is securely connected to prevent electrical shock.
- Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
- Do not damage the mains lead. (A damaged lead may cause fire or electrical shock.)
 - Do not move the TV with the lead plugged in the socket outlet.
 - Do not place a heavy object on the lead or place the lead near a high-temperature object.
 - Do not twist the lead, bend it excessively, or stretch it.
 - Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.
 - Do not use a damaged mains plug or socket outlet.

If you find any abnormality, remove the mains plug immediately!

AC 110-240 V
50 / 60 Hz

Do not remove covers **NEVER** modify the unit yourself

(High-voltage components may cause serious electrical shock.)

- Have the unit checked, adjusted, or repaired at your local Panasonic dealer.

Do not place foreign objects inside the unit

- Do not let metal or flammable objects drop into the unit through the air vents (fire or electrical shock may result).

Avoid exposing the TV set to direct sunlight and other sources of heat.

- To prevent fire, never place any type of candle or naked flame on top or near the TV set.

Keep liquids away from the TV

- Do not expose this TV to dripping or splashing to prevent damage which may result in fire or shock hazard.
- Do not place any liquid container (vase, glass, cosmetics, etc.) near or above the unit. (Spilled liquids or foreign matters may cause a short, resulting in fire or electrical shock.)

■ Do not place the TV on an unstable surface

■ Use only the dedicated stands / mounting equipment

- Using an unauthorized stand or other fixtures may make the unit shaky, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use optional mounts (p. 6).

Caution

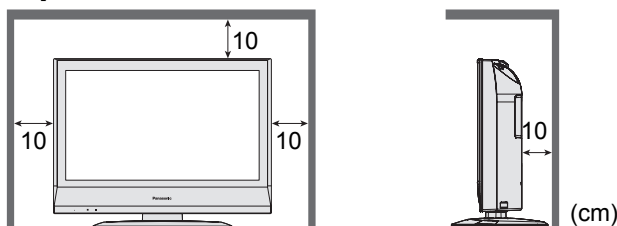
■ When cleaning the TV unit, remove the mains plug

(Cleaning an energized unit may cause electrical shock.)

■ When TV will not be used for a long time, remove the mains plug

- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

■ Allow sufficient space around the unit for radiated heat



■ Do not block the rear air vents

- Blocked ventilation by curtains, etc. may cause overheating, fire or electrical shock.

■ Do not install on top of other heat generating equipment

■ Keep unit away from other appliances

- Electronic equipment
In particular, do not place video equipment near the unit (electromagnetic interference may distort images / sound).
- Equipment with an infrared sensor
This TV also emits infrared rays (this may affect operation of other equipment).



Maintenance

First, remove the mains plug from the socket outlet.

Display panel

Regular care: Gently wipe the surface clean of dirt by using a soft cloth.

Major contamination: Wipe the surface clean using a soft cloth dampened with clean water or water containing a small amount of neutral detergent. Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.

Caution

- The surface of the display panel has been specially treated and may be easily damaged.
Do not tap or scratch the surface with your fingernail or other hard object.
- Use care not to subject the surface to bug repellent, solvent, thinner, or other volatile substances (this may degrade surface quality).

Cabinet

Regular care: Wipe the surface clean using a soft dry cloth.

Major contamination: Dampen a soft cloth with clean water or water containing a small amount of neutral detergent. Then, wring the cloth and wipe the surface clean with it. Finally, wipe the surface clean with a dry cloth.

Caution

- Use care not to subject the TV unit's surfaces to detergent.
(A liquid inside the TV unit could lead to product failure.)
- Use care not to subject surfaces to bug repellent, solvent, thinner, or other volatile substances (this may deteriorate the surface by peeling the paint).
- Do not allow the cabinet to make contact with a rubber or PVC substance for a long time.

Mains plug

Wipe the mains plug with a dry cloth at regular intervals. (Moisture and dust may lead to fire or electrical shock.)

Accessories / Options

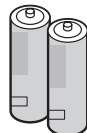
Standard accessories

Check that you have the accessories and items shown ☒

- ☐ Remote Control Transmitter
● N2QAJB000121



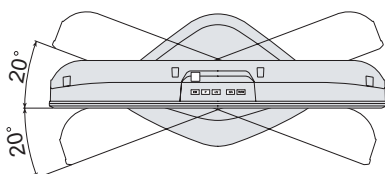
- ☐ Batteries for the Remote Control Transmitter (2)
● R6 (AA)



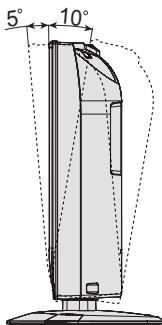
- ☐ Operating Instructions

How to use the stand

Adjust the LCD panel to your desired angle.



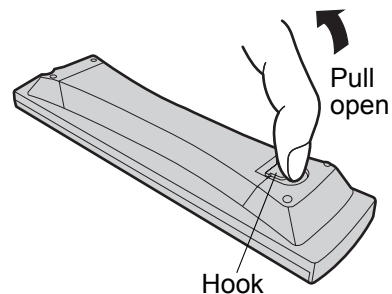
(View from the top)



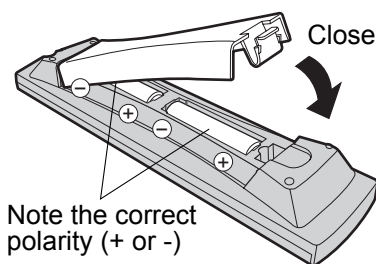
(View from the side)

Installing remote's batteries

1



2



Caution

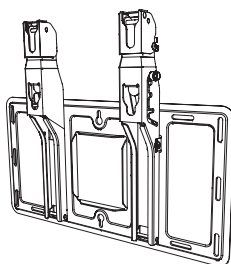
- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control unit.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or breakup batteries.

Optional accessories

Please contact your nearest Panasonic dealer to purchase the recommended wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.

Wall-hanging bracket (vertical)

- TY-WK23LR2W

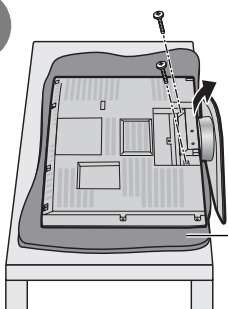


WARNING

- Failure to use a Panasonic bracket or choosing to mount the unit yourself will be done at the risk of the consumer. Any damage resulting from not having a professional installer mount your unit will void your warranty.
- Always be sure to ask a qualified technician to carry out setup. Incorrect fitting may cause equipment to fall, resulting in injury and product damage.
- Do not mount this LCD Television directly below ceiling lights (such as spotlights, floodlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.

How to remove the TV-Stand

1

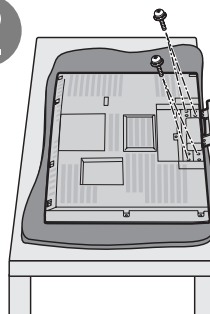


Remove two screws

Pull out the plastic portion

Foam mat or thick soft cloth

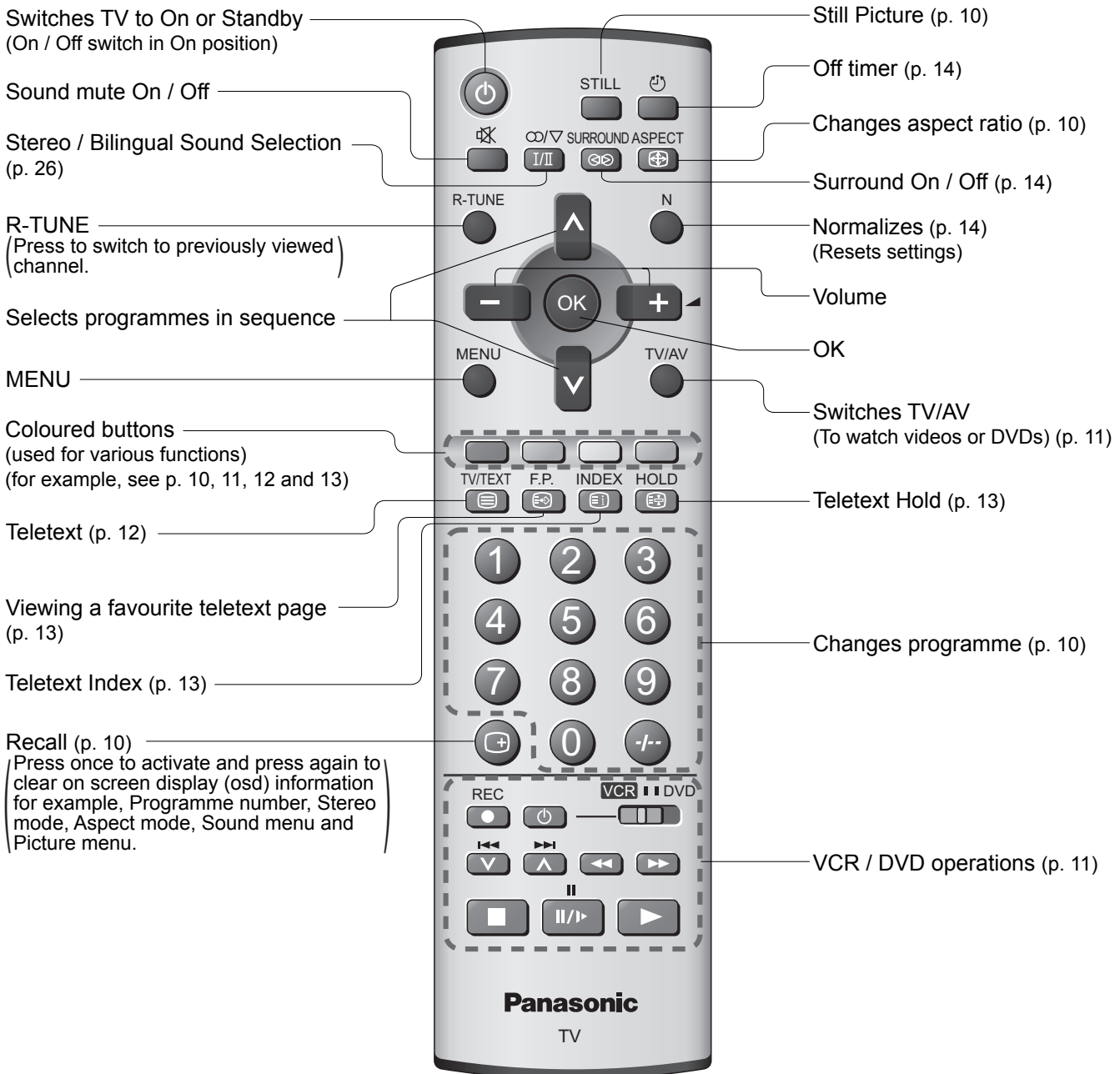
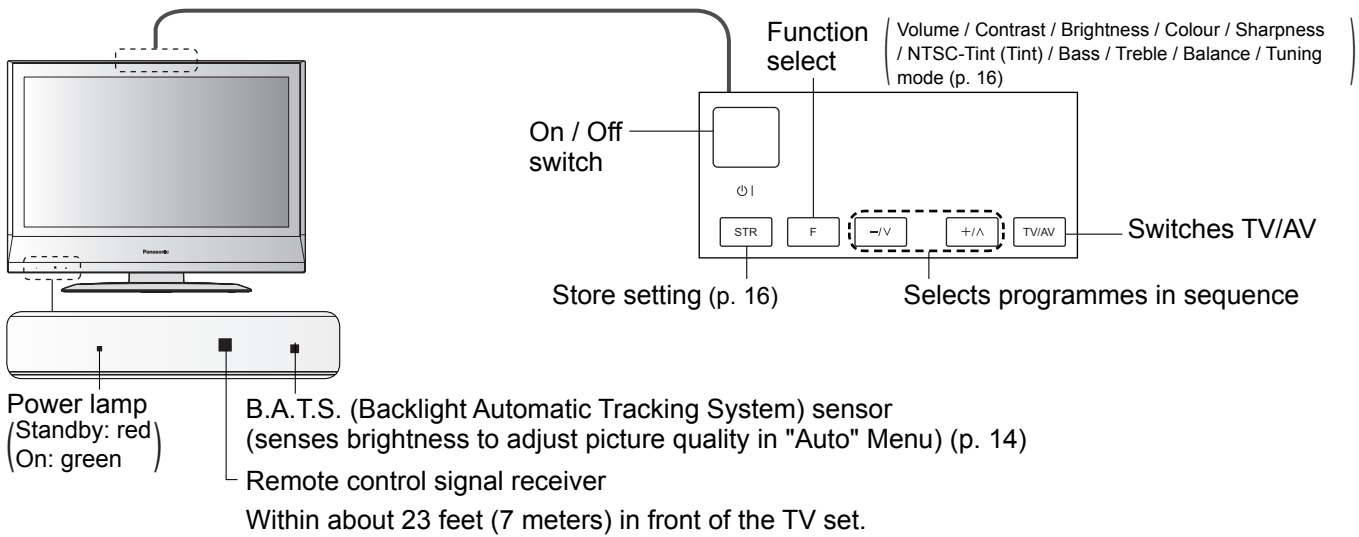
2



Remove four screws

Pull out the metallic portion

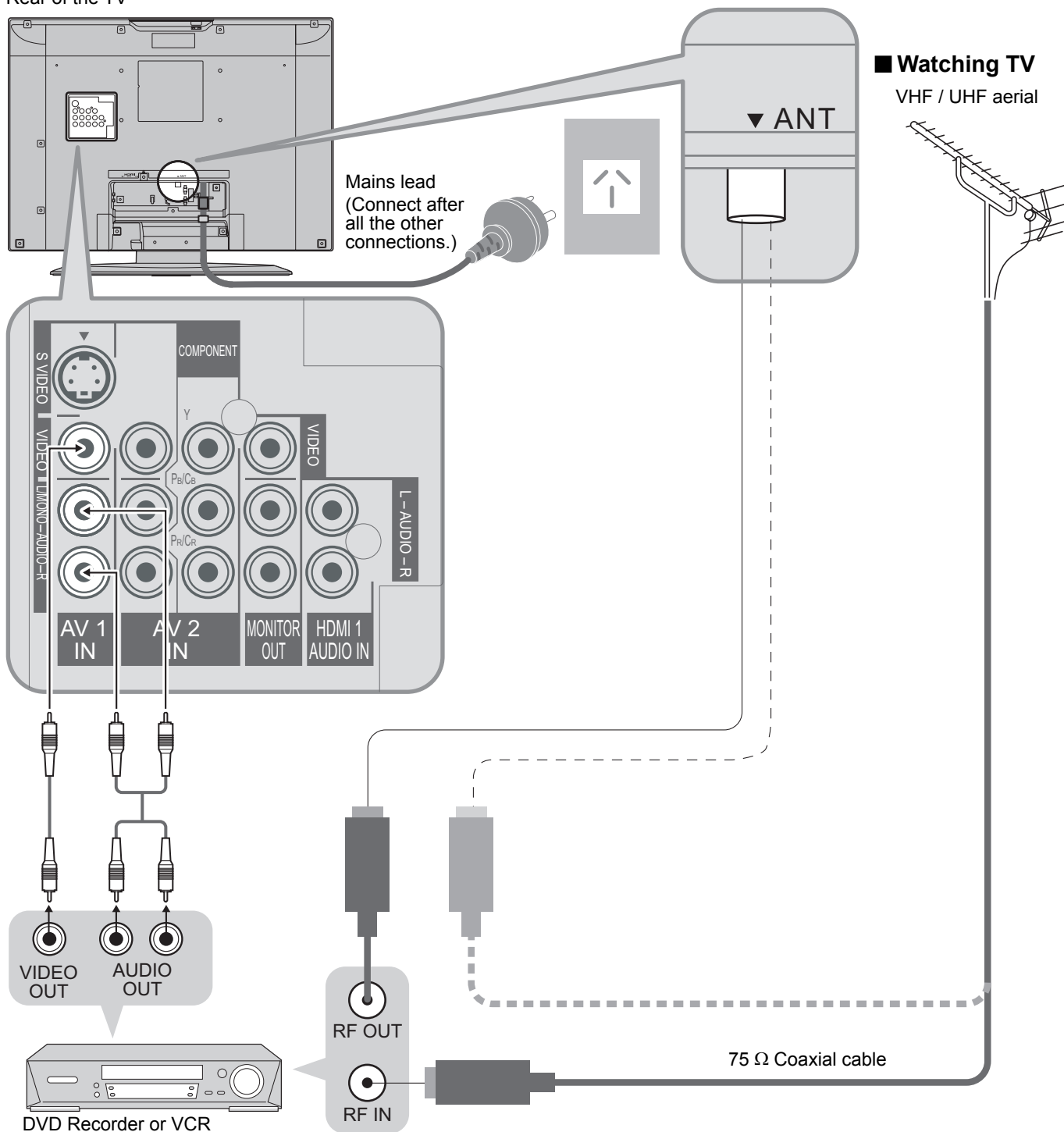
Identifying Controls



Connection

External equipments and cables shown in this manual are not supplied with this TV.
Please ensure that the unit is disconnected from the mains before attaching or disconnecting any leads.

Rear of the TV

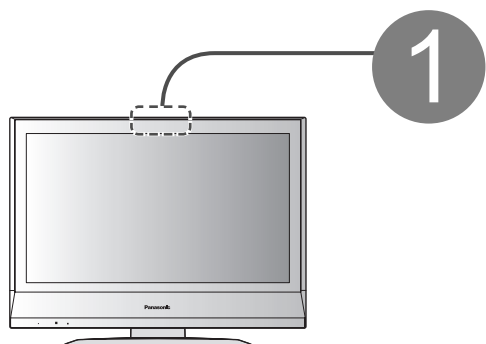


Note

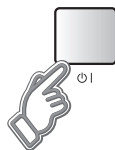
- To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ω coaxial) and the correct terminating plug are required.
- If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and the TV.
- Your local Television Service Centre or dealer may be able to assist you in obtaining the correct Aerial system for your particular area and the accessories required.
- Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.

Initial Setup

These steps are not necessary if the setup has been completed your local dealer.



Turn the TV On with the On / Off switch



From now on you can use the remote control to turn On the unit or turn the unit to standby mode.

- If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with MAINS power On / Off switch.

2

This TV has been pre-programmed in the factory to the following Australian TV channels.

Programme No.	Channele No.
2	2
7	7
9	9
10	10
28	28
31	31

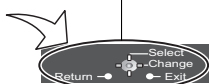
3

If your location does not receive these channels please go to "Auto Tuning" section (p. 18-19).

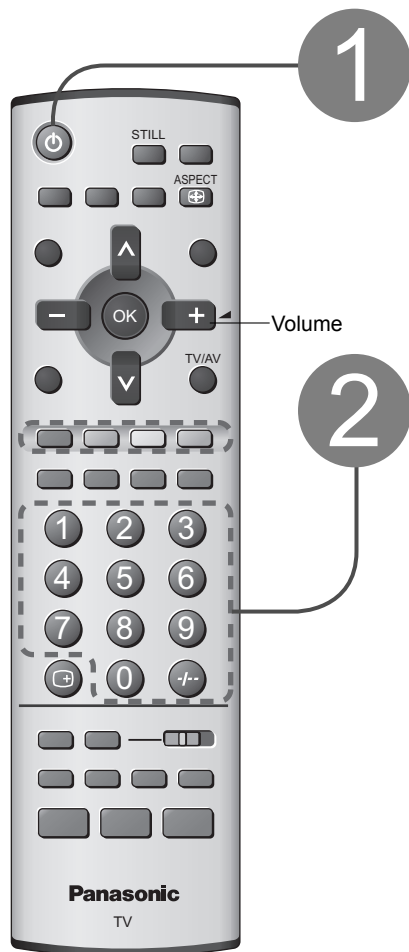
Need help with operations?

(example: Sound menu)

On-screen operation guide will help you.



Watching TV



1

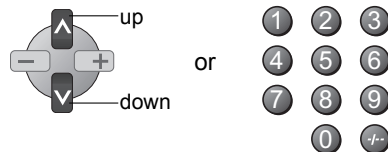
Turn power on



● On / Off switch on unit should be On.

2

Select a programme number



■ CH select via number button

You can select the numbers directly by pressing Programme Number button and the two digit numbers by pressing Two Digit button () and Programme Number buttons.

Programme Number 8

Programme Number 12.... , ,

■ pressing the Ch up/down button , you can quickly cycle

through the pre-programmed channels.

Programme No.	Channel No.
2	2
7	7
9	9
10	10
28	28
31	31

■ Other Useful Functions (Operate after ②)

Picture Still

Freeze / unfreeze picture



● Press the **STILL** button to freeze the picture. (TV/VIDEO input only. Component/HDMI input does not freeze.) Press again to return to watching the current programme.

Display status information

Display/hide Ch number/AV, status information on screen.



● Press once to activate and press again to clear on screen display (osd) information for example, Programme number, Stereo mode, Aspect mode, Sound menu and Picture menu.

Change aspect ratio

Change the aspect ratio (p. 25)




● Each press changes the mode. (16:9 / Just / 4:3 / Zoom1 / Zoom2 / Zoom3)

While the bar is displayed



Watching Videos and DVDs

It is possible to connect a variety of external equipment to the TV unit. Once the equipment is connected, use the following procedure to view the input.
To connect the equipment (p. 23)



1 With the equipment turned On
Select the external input

2 **Select the connector**
connected to the equipment

● example: AV1 → red
HDMI2 → blue

TV/AV

(AV mode screen)

AV1

AV1 AV2 HDMI1 HDMI2

AV2

Displays the selected connector

AV1 AV2 HDMI1 HDMI2

red green yellow blue
AV1 AV2 HDMI1 HDMI2

Note

- If the external equipment has an aspect adjustment function for a connected TV, set to "16:9".
- For details, see the manual of the equipment or ask your local dealer.
- You can also select an AV source using the **TV/AV** button on the top panel of the TV.

■ To return to TV



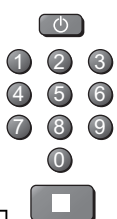
Some Panasonic VCR and DVD equipment connected to the TV unit can be directly operated with the remote control.

■ Remote control setting

① Switch to select VCR or DVD



② While pressing the VCR / DVD Power button, press the manufacturer code (enter the two digit code), and press the VCR / DVD Stop button.



VCR

Manufacturer	Code
Panasonic / National	10, 11, 12, 13

DVD

Manufacturer	Code
Panasonic	70, 71

Note

- After setting, execute operation confirmation. If there is no operation, set a different code.
- The respective VCR / DVD code is cancelled when battery has been exchanged. Set it again.
- Depending on the model, operation may not be possible.
- In some cases, new products may not be operative.

VCR / DVD	VCR / DVD switch Select VCR / DVD
Power	Standby Set to Standby mode / Turn on
Play	Play Playback VCR / DVD
Stop	Stop Stop the operations
Rewind	Rewind / Slow-motion / Search VCR: Rewind, review (during playback) DVD: Play at slow speed Press and hold to search backward
Fast-forward	Fast-forward / Slow-motion / Search VCR: Fast-forward, cue (during playback) DVD: Play at slow speed Press and hold to search forward
Pause	Pause Pause / Restart
Programme Up / Down	Programme Up, Down / Skip VCR: Select programme DVD: Skip the track or title
REC	Record Start recording

Viewing Teletext

You can enjoy teletext broadcasting, including news, weather forecasts and subtitles, if this service is provided by the broadcasters.


What is TOP mode?

In TOP mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.

What is List mode?

In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages", p. 13)

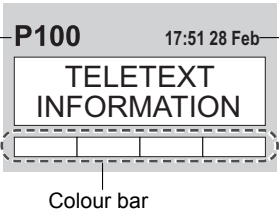
■ **To change mode** → Select "Teletext" in Setup menu (p. 14)



1 Switch to Teletext

TV/TEXT

- Displays Index (content varies depending on the broadcasters)



2 Select the page

1 2 3
4 5 6
7 8 9
0

or

up
down

or

red green yellow blue
(Corresponds to the colour bar)

■ To return to TV

→ Press TV/TEXT twice

■ To adjust contrast

As the blue bar is displayed

MENU

■ To return to the previous screen

→ MENU

● Contrast will be lowered in the still picture to prevent after-image.

Note

● Exit teletext to change surround sound mode.

■ Using teletext conveniently

Reveal hidden data

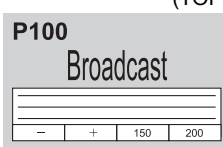
Reveal hidden words e.g. quiz page answers

MENU → red ● Re-hide → red

FULL / TOP / BOTTOM

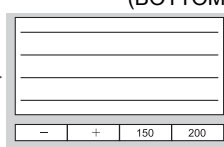
MENU → green

(TOP)



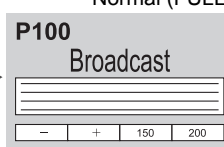
→

(BOTTOM)







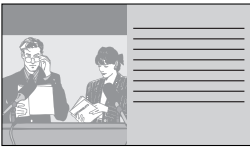


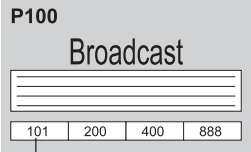




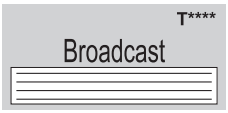







→

Normal (FULL)




(Expand the BOTTOM half)

HOLD	<p>If you wish to hold the current page without updating</p> <p>Stop or resume automatic updating</p> <p>HOLD  ■ To resume → HOLD  Press again</p>
INDEX	<p>Return to the main index page</p> <p>INDEX  ● TOP mode only</p>
Call up a favourite pages	<p>F.P.  ● Call up the page stored in "blue". ● Factory setting is "P103".</p>
Picture and text	<p>Watch TV and Teletext in two windows at once</p> <p>TV/TEXT  (Press twice) →  ● Select Picture and text On or Off</p> <p>● Operations can be made only in Teletext screen.</p> 
Store frequently viewed pages	<p>Store frequently viewed pages (programme position 1 to 25) in the colour bar (List mode only)</p> <p>As page is displayed  →  Press and hold</p> <p>Corresponding colour button</p>  <p>The number changes to white.</p> <p>■ To change stored pages</p> <p>→  Colour button you want to change → Enter new page number</p> <p>1 2 3 4 5 6 7 8 9 0</p> <p>→  Press and hold</p>
View sub page	<p>View sub page (Only when teletext is more than one page)</p> <p>→ MENU  →  blue</p> <p> → Enter the 3-digit number</p> <p>example: P6 0 0 6</p> <p>→ </p> <p>● Sub pages: The number of sub pages varies depending on the broadcasters (up to 79 pages). It may take some time for searching, during which time you can watch TV.</p> <p>■ To ENABLE subtitles, enter page. 801 via number buttons</p> <p>● To change channel you must EXIT teletext mode.</p>
Watch TV while waiting for update	<p>View the TV picture while searching for a teletext page</p> <p>Teletext automatically updates itself when new information becomes available. Changes to TV screen temporarily</p> <p>MENU  →  yellow →  Appears when updating is completed →  yellow → View the updated page</p> <p>(You cannot change the channel.)</p> <p>● The news page provides a function that indicates arrival of latest news ("News Flash").</p>

How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV in your own way.



1 Display menu
MENU ● Displays the functions that can be set (varies according to the input signal)

2 Select the menu
Main menu
Picture menu Access
Sound menu
Setup menu
(example: Picture menu)

3 Select the item
Picture menu
Menu Dynamic
Contrast
Brightness
Colour
Sharpness
NTSC-Tint
Colour temperature
D.PNR
(example: Picture menu)

4 Adjust or select
Picture menu
Menu Dynamic
Contrast
Brightness
Colour
Sharpness
NTSC-Tint
Colour temperature
D.PNR
(example: Picture menu)

Menu list

Menu	Item
Picture menu	Menu
	Adjust by each menu
	Contrast, Brightness, Colour, Sharpness
	NTSC-Tint
Sound menu	Colour temperature
	D. PNR
	Menu
	Volume
Setup menu	Bass, Treble
	Balance
	Headphone volume
	Surround
Setup menu	HDMI1 input
	Control with HDMI
	Teletext
	Off timer
Setup menu	Ch colour set
	Child lock
	Blue back
	Tuning menu
Setup menu	Colour system
	Colour matrix

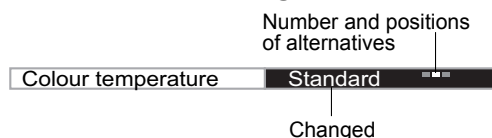
To return to TV



To return to the previous screen



Choose from among alternatives



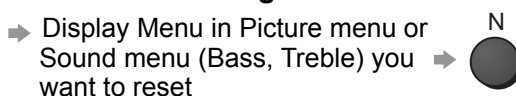
Adjust using the slide bar



Go to the next screen



To reset the setting

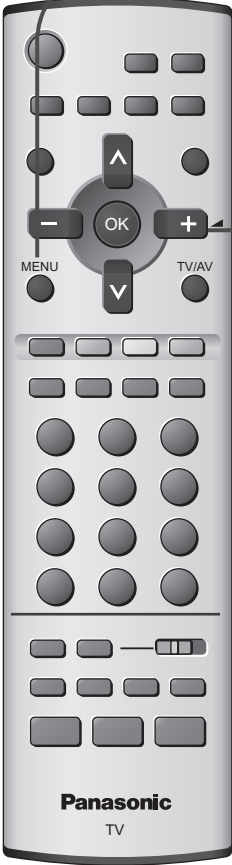



Adjustments / Configurations (alternatives)		
Basic picture mode (Dynamic / Standard / Cinema / Auto) ● Menu mode will be memorized for each TV, AV1, AV2, HDMI1 and HDMI2 mode. ● B.A.T.S. (p. 7) is in effect when Menu mode is set to Auto.	Menu	Dynamic
Adjusts colour, brightness, etc. for each picture mode to suit your taste	Contrast	
	Brightness	
	Colour	
	Sharpness	
Adjusts tint of image ● For NTSC signal reception only ● Item will be changed to "Tint" when receiving YUV (60Hz) or HDMI (60Hz) signal	NTSC-Tint	
Chooses the colour balance of the entire image (Cool / Standard / Warm)	Colour temperature	Standard
Automatically reduces image noise (Off / Strong / Weak / Auto) ● Set to Off when receiving a strong signal or AV Input.	D. PNR	Auto
Basic sound mode (Music / News / Cinema) ● Menu mode will be memorized for each TV, AV1, AV2, HDMI1 and HDMI2 mode.	Menu	Music
Adjusts the output volume	Volume	
Adjusts the output level of deep bass, high-pitch, shrill sound for each sound mode	Bass	
	Treble	
Adjusts volume level of right and left speakers	Balance	
Adjusts the volume of the headphones	Headphone volume	
Gives a greater spatial effect by using dynamic enhancer (Off / On) ● Switching is also possible by SURROUND button on the remote control	Surround	Off
Chooses according to the signal when HDMI is connected (Auto / Digital / Analogue) (p. 25) ● HDMI2 terminal is for digital signal only	HDMI1 input	Auto
Control with HDMI function (On / Off) (p. 20)	Control with HDMI	On
Teletext display mode (TOP / List) (p. 12)	Teletext	TOP
Sets the time the unit automatically turns Off. (Off / 15 / 30 / 45 / 60 / 75 / 90) (minutes) Switching is also possible by pressing the Off timer button. (p. 7)	Off timer	Off
Colour density varying between broadcast channels can be adjusted to three levels for each reception channel ● Select the channel you want to adjust and set this function	Ch colour set	
Child lock can be set for each channel and each AV mode Image and sound are not available during Child lock On (Black screen will appear) ● Select the channel or AV mode you want to lock and set this function	Child lock	Off
Blue background display (Off / On) ● On: Display blue background when there are no signals ● Off: Do not display blue background	Blue back	Off
Edits or sets channels (p. 16)	Tuning menu	Access
Displayed during AV mode. If a clear picture with current colours cannot be obtained when a Broadcast or AV signal is received, this function is used. Auto / PAL / SECAM / NTSC 4.43 / NTSC 3.58 PAL, SECAM and NTSC 3.58 are different colour signal broadcast transmission systems applicable to differing countries. NTSC 4.43 is a trick playback mode used in special VCR's to playback NTSC recorded video tapes through PAL television equipment.	Colour system	Auto
Displayed during AV mode Available only with 480p or 576p input signals in a natural colour from digital equipment connected to AV2 Component terminals Select SD or HD to adjust suitable colour parameters for SD (standard definition) or HD (high definition) ● SD: Input signal is a normal TV system ● HD: Input signal is a High-Definition system	Colour matrix	SD

● In AV mode, the Sound menu and Setup menu gives a smaller number of options.


Editing and Setting Channels

The current channel settings can be changed according to your needs and reception conditions.
For Auto tuning, see p. 18.




- 1 Display the menu**

- 2 Select "Setup menu"**


Main menu	
Picture menu	
Sound menu	
Setup menu	Access


- 3 Select "Tuning menu"**

Setup menu	
Control with HDMI	On
Teletext	TOP
Off timer	Off
Ch colour set	
Child lock	Off
Blue back	On
Tuning menu	Access


- 4 Select the item**

Tuning menu	
Sys select	Asia/M.East
Auto tuning	Access
Manual tuning	Access
Sound system	5.5MHz
Colour system	Auto
Fine tuning	
Skip	Off


- 5 Access, change or adjust**

Set manually

Manual tuning

Edit

Sound system

Edit

Colour system

Small adjustment

Fine tuning

Skip the programme

Skip

■ To exit



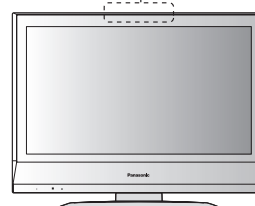
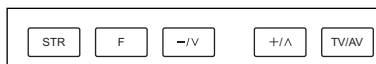
■ To return to the previous screen



For Auto tuning, using the buttons on the unit ("Tuning mode" on p. 7)

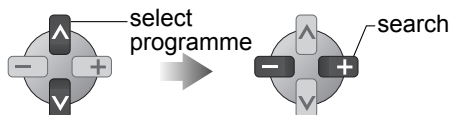
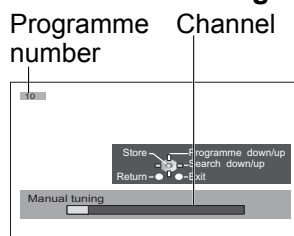
- ① **[F]** (Press until "Tuning mode" appears)
- ② **[-/V]** or **[+/\]** (Access Tuning menu)
- ③ **[F]** (Press until "Auto tuning" is reached)
- ④ **[-/V]** or **[+/\]** (Searching channels)

■ To return to TV



To freely change settings after Auto setup

① **Select the programme number and search through the channel**



② **Store**

When the desired channel is found, press OK to store.

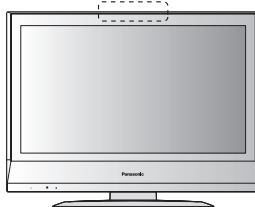
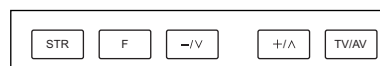
- The programme number blinks.

③ **Repeat ① and ②**

Note

- If a VCR is connected with only the RF cable, select programme number "0".

For Manual tuning, using the buttons on the unit
("Tuning mode" on p. 7)

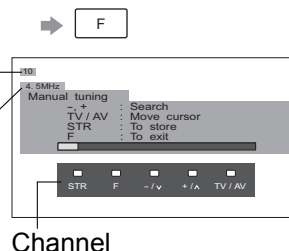


■ **To return to TV**

- ① **F** (Press until "Tuning mode" appears)
- ② **-/V** or **+/** (Access Tuning menu)
- ③ **F** (Press until "Manual tuning" is reached)
- ④ **-/V** or **+/** (Access Manual tuning)
- ⑤ **TV/AV** (Programme, Channel (select), Sound system)
- ⑥ **-/V** or **+/** (Change programme or start searching channels)
- ⑦ **STR** (Store)
- ⑧ ⑤-⑦ (Repeat)

Programme number
(Blinks)

Sound system
(Blinks)



Allows you to change the sound system used for a programme channel.
(4.5MHz / 5.5MHz / 6.0MHz / 6.5MHz)

Select the channel you want to adjust ➔ Set this function ➔ **OK**

Lets you select the correct transmission standard for the transmission signal being received. (p. 15)
(Auto / PAL / SECAM / NTSC 4.43 / NTSC 3.58)

Select the channel you want to adjust ➔ Set this function ➔ **OK**

- Normally, select "Auto"

For the small adjustments to the tuning of an individual channel (useful for example when weather conditions are affecting reception quality of a programme)

Select the channel you want to adjust ➔ Set this function ➔ **OK**

- To cancel Fine tuning, tune again by Manual tuning

For skipping the programme numbers on which no TV stations are tuned


Select the programme numbers you want to skip ➔ Set "Skip" to "On" ➔ **OK**

To skip another channel, select the channel number via channel number buttons (if selecting two digits channel, you must first press the **-/--** key then the channel digits).

- If you intend to change the skip settings for a number of channels, write the channels' numbers on a piece of paper before you begin.

Auto Tuning

Search and store TV channels automatically.



1 Display the menu

MENU

2 Select "Setup menu"

Main menu	
Picture menu	
Sound menu	
Setup menu	Access

② access
① select

3 Select "Tuning menu"

Setup menu	
Control with HDMI	On
Teletext	TOP
Off timer	Off
Ch colour set	
Child lock	Off
Blue back	On
Tuning menu	Access

② access
① select

4 Select the item (Sys select / Auto tuning)

Tuning menu	
Sys select	Asia/M.East
Auto tuning	Access
Manual tuning	
Sound system	5.5MHz
Colour system	Auto
Fine tuning	
Skip	Off

select

5 Change or access

■ To exit
→ TV/AV

■ To return to the previous screen
→ MENU

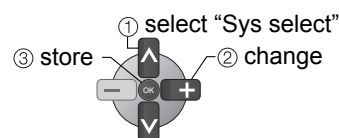
Note

- If the image or sound is strange after Auto tuning, edit or adjust each channel
→ "Sound system", "Colour system", "Fine tuning" (p. 16)
- If you want to skip the channels which have no tuning data
→ "Skip" (p. 16)

① Sys select (System selection)

Select the system of your area.

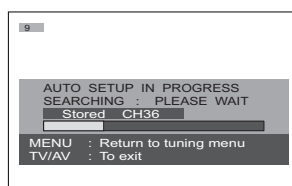
**(China / HK/UK / Asia/M.East / NZ/INDONES / Australia / E.Europe /
SPECL Ver / America / CATV / Japan)**



Sys select	REGION
China	China
HK/UK	Hong Kong, United Kingdom
Asia/M.East	Malaysia, Singapore, Thailand, Asia countries, Kuwait, Saudi Arabia, United Arab Emirates, Middle East countries, etc.
NZ/INDONES	New Zealand, Indonesia, etc.
Australia	Australia
E.Europe	CIS, Poland, etc.
SPECL Ver	South Africa
America	USA, Chile, Mexico, Panama, Peru, Philippines, Taiwan, Venezuela, etc.
CATV	USA CATV
Japan	Japan

② Auto tuning

Automatically set the channels received in your area.



The TV will search for, locate, store and then sort into order your local stations.

Auto tuning is now complete and your TV is ready for viewing.



Once Auto tuning is completed the TV will display the programme now stored on programme position 1.

● If it is not the first time to perform Auto tuning, all previous tuning datas will be erased.

● To edit channels

➔ "Editing and Setting Channels" (p. 16)

● Press the TV/AV button at any time to go back to watching TV.



External Equipment

Control with HDMI "HDAVI Control"*

*Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. HDMI connections to some Panasonic equipments (Panasonic DVD Recorder DIGA) allow you to enjoy the easy playback.

About connections, see p. 21. Read the manuals of the equipment too.

Non-HDMI-compliant cables cannot be utilized.

About applicable equipments, consult your local Panasonic dealer.

After connections turn the equipments on and then, switch the TV unit on.

1 Display the menu

MENU

2 Select "Setup menu"

Main menu
Picture menu
Sound menu
Setup menu Access

access
select

3 Select "Control with HDMI" and set to "On"

Setup menu
Control with HDMI On
Teletext TOP
Off timer Off
Ch colour set
Child lock Off
Blue back On
Tuning menu

set
select

Panasonic TV

DVI note

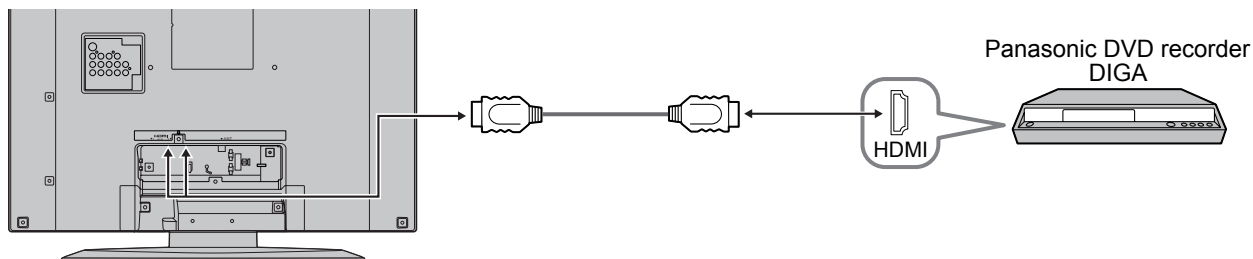
- "Control with HDMI" is not possible using DVI connection.
- DVI picture position is controlled by the source device (eg.: STB, DVD player etc.). If you experience picture position error using DVI→HDMI cable, please contact the source device manufacturer.

- It is recommended that you use Panasonic's HDMI cable.
Recommended part number:
RP-CDHG15 (1.5 m)
RP-CDHG30 (3.0 m)
RP-CDHG50 (5.0 m)

Connections for Control with HDMI

■ Easy playback

Rear of the TV



Easy playback

Automatic Input switching-When the connected Panasonic equipment is operated, input mode is switched automatically.

Power on link

When "Control with HDMI" is set to "On", the TV is automatically turned on and switched to the appropriate HDMI input whenever a "Control with HDMI" compatible DIGA (Panasonic DVD Recorder) is initially turned on and Play mode is selected.

Power off link

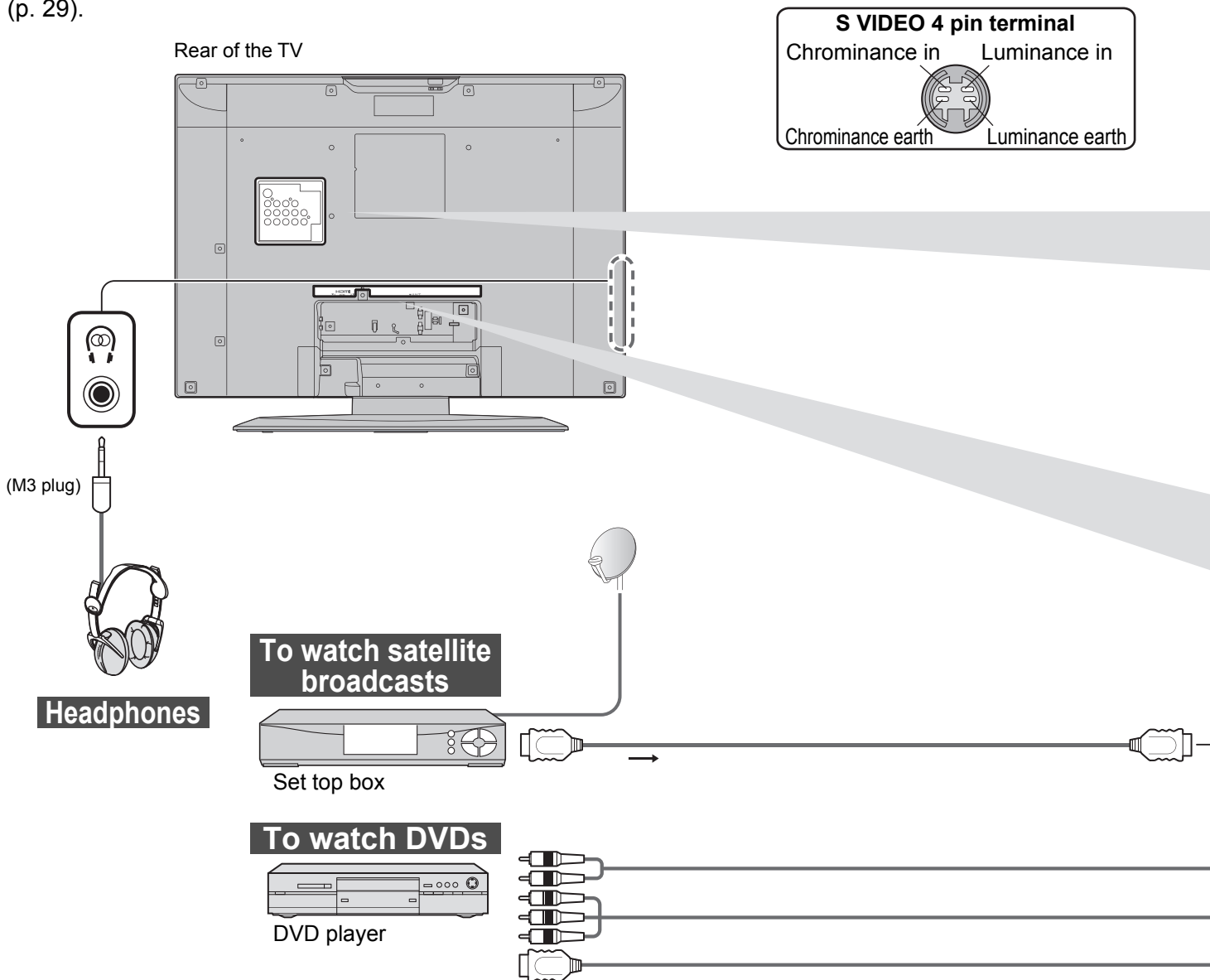
When "Control with HDMI" is set to "On" and the TV is turned off, the connected DIGA (Panasonic DVD Recorder) is also automatically turned off.

- The TV remains on even if the "Control with HDMI" compatible equipment is turned off.



External Equipment

Connections

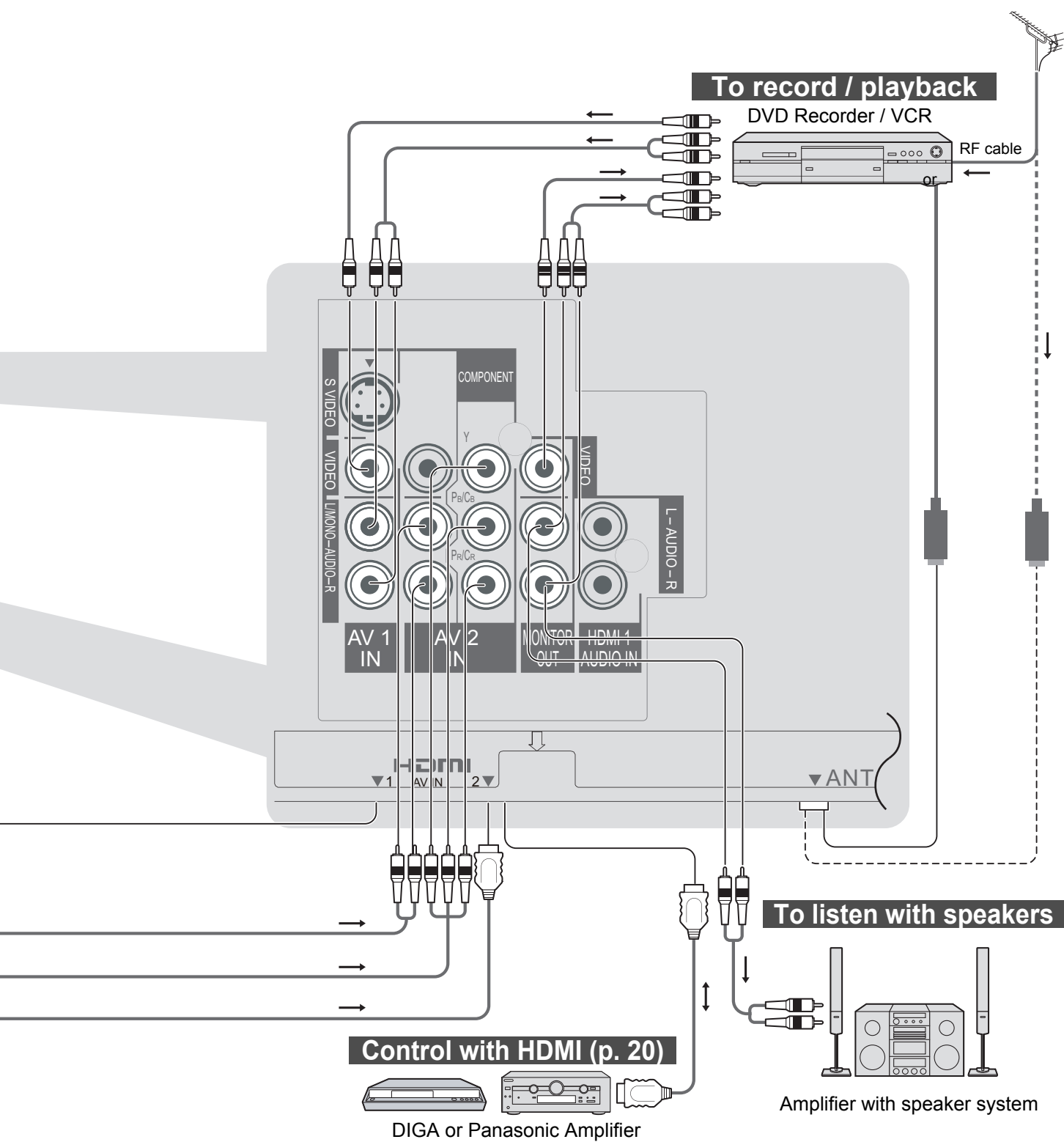
These diagrams show our recommendations for how to connect the TV unit to your various equipments. For other connections, consult the instructions of each equipment, the table below, and the specifications (p. 29).



Types of connectable equipment to each connector

Connector	 AV1 IN	 AV2 IN	
Recording / Playback (equipment)			
■ To record / playback videocassettes / DVDs (VCR / DVD recorder)	○	○	
■ To watch DVDs (DVD player)	○	○	
■ To watch camcorder images (Video camera)	○	○	
■ To watch satellite broadcasts (Set top box)	○	○	
■ To play games (Game equipment)	○	○	
■ Control with HDMI			

○: Recommended Connection



MONITOR OUT	HDMI1 AUDIO IN	HDMI 1	HDMI 2
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- Connect the S-VIDEO or VIDEO terminal when using AV1 IN terminals.
- Connect the COMPONENT or VIDEO terminal when using AV2 IN terminals.

Technical Information

Channel Allocation

Sys select	NZ/INDONES	Australia
CH DISPLAY	RECEIVE CHANNEL	
0	—	—
1	1	0
2	2	1
3	⋮	2
4	⋮	3
5	⋮	4
6	⋮	5
7	⋮	S2
⋮	⋮	⋮
11	11	⋮
12	—	⋮
13	—	⋮
14	—	⋮
15	—	S10
16	—	6
⋮	—	⋮
19	—	9
20	—	9A
21	21	10
22	⋮	11
23	⋮	12
24	⋮	S11
⋮	⋮	⋮
28	⋮	⋮
⋮	⋮	⋮
57	⋮	S44
58	⋮	20
59	⋮	21
⋮	⋮	⋮
62	62	⋮
63	63	⋮
⋮	⋮	⋮
69	69	⋮
70	—	⋮
⋮	—	⋮
73	—	⋮
74	S'1	⋮
75	S'2	⋮
76	S'3	⋮
77	—	⋮
78	—	⋮
79	—	⋮
80	S1	⋮
81	S2	⋮
⋮	⋮	⋮
89	S10	⋮
90	S11	⋮
91	S12	⋮
92	S13	⋮
93	S14	⋮
94	S15	⋮
95	S16	⋮
96	S17	⋮
97	S18	⋮
98	S19	⋮
99	S20	⋮
100	S21	⋮
⋮	⋮	⋮
107	⋮	69
⋮	⋮	—
117	⋮	—
118	⋮	—
⋮	⋮	—
120	S41	—
⋮	—	—
125	—	—

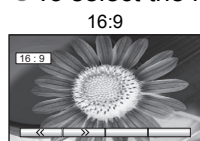
Aspect Ratio

The optimum size and aspect can be chosen, and you can enjoy finer images. (p. 10)

Signal name		Aspect modes					
		16:9	JUST	4:3	ZOOM1	ZOOM2	ZOOM3
TV/AV1/ AV2/AV3	PAL I	○	○	○	○	○	○
	PAL 525/60	○	○	○	○	○	○
	M. NTSC	○	○	○	○	○	○
	NTSC	○	○	○	○	○	○
Component/HDMI	480i - 60Hz	○	○	○	○	○	○
	480p - 60Hz	○	○	○	○	○	○
	576i - 50Hz	○	○	○	○	○	○
	576p - 50Hz	○	○	○	○	○	○
	720p - 50Hz	○	○	○	○	○	○
	720p - 60Hz	○	○	○	○	○	○
	1080i - 50Hz	○	○	○	○	○	○
	1080i - 60Hz	○	○	○	○	○	○

Note

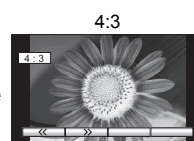
- The ratio varies depending on the programme, etc. If the ratio is greater than the standard "16:9", black bands may appear at the top and bottom of the screen.
- If the screen size looks unusual when a widescreen-recorded programme is played back on a VCR, adjust the tracking of the VCR. (See the VCR manual.)
- To select the ratio manually:



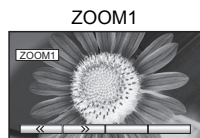
Directly displays the image at "16:9" without distortion (anamorphic).



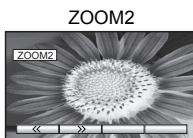
Displays a 4:3 image full-screen. Stretching is only noticeable at the left and right edges.



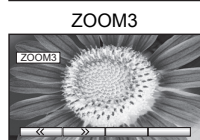
Displays the image at the standard "4:3" without distortion.



Displays a "16:9" letterbox or "4:3" image without distortion.



Displays a "16:9" letterbox (anamorphic) image full-screen without distortion.



Displays a "21:9" letterbox (anamorphic) image full-screen without distortion. At "16:9", displays the image at its maximum (with slight enlargement).

Note

- When using digital-TV STB connection, pillar box video (eg. black bar left/right of video) cannot be justified.

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV unit and the equipment.

HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable.

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (*2) (analogue connection).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI1 input" menu screen. (p. 14)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(*1): The HDMI logo is displayed on an HDMI-compliant equipment. (*2): Enquire at your local digital equipment retailer shop.

Note

- HDMI2 terminal is for digital signal only.
- PC DVI video resolution is not supported using DVI connection.
- The 720p/1080i signals will be reformatted before being displayed on the screen.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- An equipment having no digital output terminal may be connected to the input terminal of either "Component", "S-VIDEO", or "Video" to receive analogue signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 576i, 576p, 720p and 1080i. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 26.

Technical Information

Stereo / Bilingual Sound Selection

∞/▽
I/II When you receive the stereo / bilingual sound system, sound output modes can be selected by pressing the **Stereo / Bilingual Sound Selection** button.

Audio Signal	STEREO	MAIN I	SUB II	MONO
Mode Indicator	∞	I	II	▽

NICAMUsed in New Zealand, Singapore, Hong Kong etc.

Type of broadcast	Regular broadcast (Standard Audio)	Regular + NICAM MONO I (MAIN I)	NICAM STEREO	NICAM DUAL MONO (MAIN I / SUB II)
Mode Indicator	No Indicator ↔ ▽	I ↔ ▽	∞ ↔ ▽	I → II ↙ ▽ ↘

A2 (German)Used in Australia, Malaysia etc.

Type of broadcast	Regular broadcast (Standard Audio)	BILINGUAL or DUAL MONO: MAIN I / SUB II	STEREO
Mode Indicator	No Indicator ↔ ▽	I ↔ II	∞ ↔ ▽

Note

- If the stereo signal is poor or the receiving conditions are not optimum or if STEREO:MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.
- Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
- When the receiving conditions deteriorate, listening will be easier if the mode is set to the MONO position, using the stereo / bilingual sound selection button.
- DUAL, also known as DUAL MONO or as BILINGUAL is not currently transmitted in some countries.

Input signal that can be displayed

* Mark: Applicable input signal for Component (Y, Pb/Cb, Pr/Cr) and HDMI

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Component	HDMI
480i(525)/60Hz	15.73	59.94	*	*
480p(525)/60Hz	31.47	59.94	*	*
576i(625)/50Hz	15.63	50.00	*	*
576p(625)/50Hz	31.25	50.00	*	*
720p(750)/60Hz	45.00	60.00	*	*
720p(750)/50Hz	37.50	50.00	*	*
1080i(1125)/60Hz	33.75	60.00	*	*
1080i(1125)/50Hz	28.13	50.00	*	*

Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

Control with HDMI

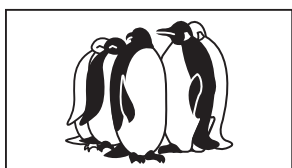
HDMI connections to some Panasonic equipments allow you to enjoy the easy playback or home theatre.

- Setup the equipment to enable this function. Read the manual of the equipment.
- Switch the TV unit on again with the equipment on when connection or setup is changed.
- This function may not work normally depending on the equipment condition.
- The equipment can be operated by TV's remote control with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.

FAQs

Before requesting service or assistance, please follow these simple guides to resolve the problem. If problem still persists, please contact your local Panasonic dealer or Panasonic Customer Care Centre for assistance.

White spots or shadow images (noise)



- Check the position, direction, and connection of the aerial.

Operating temperature

- The LCD TV radiates heat and some sections may become warm. This is not a problem for performance or quality. Ensure TV is correctly installed as detailed on page 5.

There may be red spots, blue spots, green spots and black spots on the screen. [Pixel Statement (LCD)]

- An image on an LCD panel is created by many dots known as pixels. The more pixels on the panel, the more detailed image can be displayed. To create a colour image each pixel is made up of three tiny coloured dots (1 each of red, green and blue). This gives a total far in excess of one million individual dots manufactured into the panel. Each one of three dots is precisely controlled by the electronics of the TV to produce the picture.
- Whilst Panasonic maintains the highest standards in manufacturing technology and processes in the construction of these panels, there are a number of allowable Pixel/Dot failures that would still allow the panel to be defined as a good panel. It is not possible to guarantee absolutely no pixel loss.

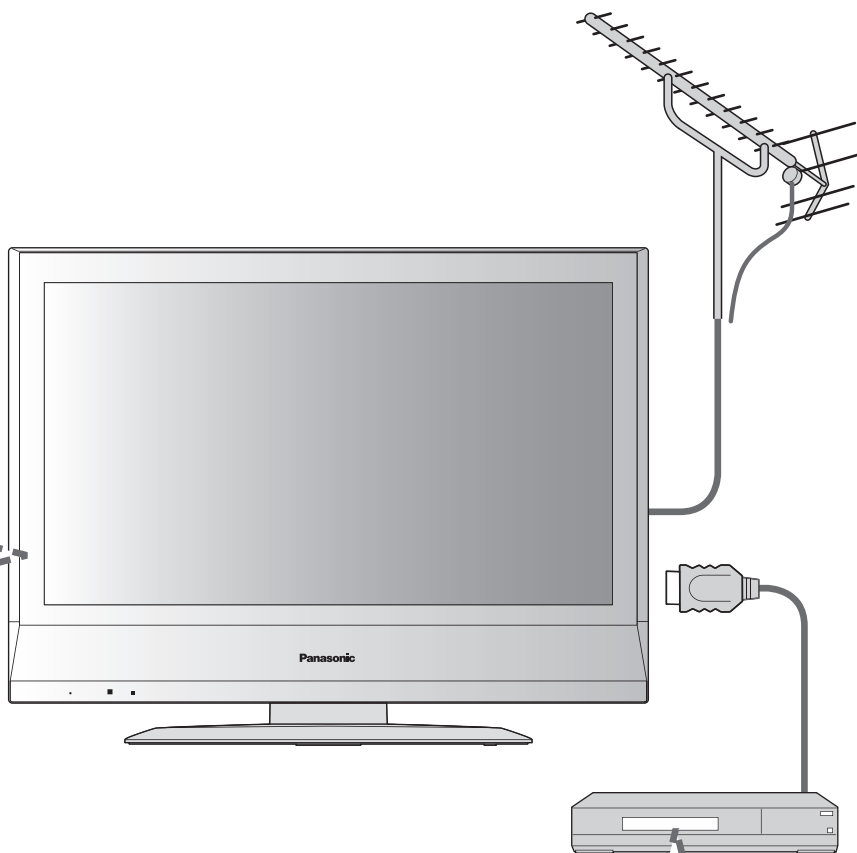


Pictures from an equipment are unusual when the equipment is connected via HDMI

- Is the HDMI cable connected properly? (p. 22)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 26)
- Use an equipment compliant with EIA/CEA-861/861B.
- Using DVI connection, see page 23.

The remote control does not work

- Are the batteries installed correctly? (p. 6)
- Has the TV unit been switched On?
- Has the battery run down?



FAQs

	Problem	Actions
Screen	Chaotic image, noisy	<ul style="list-style-type: none"> ● Set "D. PNR" in the Picture menu (to reduce noise). (p. 14) ● Check nearby electrical products (car, motorcycle, fluorescent lamp).
	No image can be displayed	<ul style="list-style-type: none"> ● Is "Colour" or "Contrast" in the Picture menu set to the minimum? (p. 14) ● Check "Colour system" (p. 16)
	Blurry or distorted image (no sound or low volume)	<ul style="list-style-type: none"> ● Reset channels. (p. 16 and 18)
	Neither image nor sound is produced	<ul style="list-style-type: none"> ● Is the unit in "AV mode"? ● Is the mains lead plugged into the socket outlet? ● Is the TV unit turned On? ● Check Picture menu (p. 14) and volume.
Sound	No sound is produced	<ul style="list-style-type: none"> ● Is "Sound Mute" active? (p. 7) ● Is the volume set to the minimum?
	Sound level is low or sound is distorted	<ul style="list-style-type: none"> ● Sound signal reception may be deteriorated. ● Check "Sound system" (p. 16)
HDMI	"Control with HDMI" function does not work	<ul style="list-style-type: none"> ● Switch the TV unit on again with the equipment on. ● Set "Control with HDMI" to "Off", then set to "On" again. (p. 20)
	Sound is unusual	<ul style="list-style-type: none"> ● Set the sound setting of the connected equipment to "2ch L.PCM". ● Check the "HDMI1 input" setting in the Sound menu. (p. 14) ● If digital sound connection has a problem, select analogue sound (DVI) connection. (p. 25)
	An error message appears	<ul style="list-style-type: none"> ● Contact the authorized Service Centre.
Other	TV unit goes into "Standby mode"	<ul style="list-style-type: none"> ● The sleep function is activated. ● The TV unit enters "Standby mode" about 30 min. after broadcasting ends.
	An error message appears	<ul style="list-style-type: none"> ● Follow the message's instructions. ● If the problem persists, contact the authorized Service Centre.

Licence

Trademark Credits

- HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Specifications

			TX-23LX60A																																																			
Power Source			AC 110-240 V, 50 / 60 Hz																																																			
Power Consumption	Average use		109 W																																																			
	Standby condition		0.9 W																																																			
LCD Panel	Aspect Ratio		16:9																																																			
	Visible screen size (No. of pixels)		58.3 cmV																																																			
			508 mm (W) × 286 mm (H) 1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]																																																			
Sound	Speaker		12 cm × 6 cm × 2 pcs, 8 Ω																																																			
	Audio Output		6 W (3 W + 3 W), 10% THD																																																			
	Headphones		M3 (3.5 mm) Jack × 1																																																			
Receiving Systems / Band name			<table><tr><td colspan="2">17 Systems</td><td colspan="2">Function</td></tr><tr><td>1</td><td>PAL B, G, H</td><td rowspan="6">Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders</td><td>8</td><td>NTSC 4.43/5.5 MHz</td><td rowspan="6">Playback from Special VCR's or DVD</td></tr><tr><td>2</td><td>PAL I</td><td>9</td><td>NTSC 4.43/6.0 MHz</td></tr><tr><td>3</td><td>PAL D, K</td><td>10</td><td>NTSC 4.43/6.5 MHz</td></tr><tr><td>4</td><td>SECAM B, G</td><td>11</td><td>NTSC 3.58/5.5 MHz</td></tr><tr><td>5</td><td>SECAM D, K</td><td>12</td><td>NTSC 3.58/6.0 MHz</td></tr><tr><td>6</td><td>SECAM K1</td><td>13</td><td>NTSC 3.58/6.5 MHz</td></tr><tr><td>7</td><td>NTSC M (NTSC 3.58/4.5 MHz)</td><td>14</td><td>SECAM I</td><td rowspan="3">Playback from Special Disc Players and Special VCR's or DVD</td></tr><tr><td></td><td></td><td>15</td><td>PAL 60 Hz/5.5 MHz</td></tr><tr><td></td><td></td><td>16</td><td>PAL 60 Hz/6.0 MHz</td></tr><tr><td></td><td></td><td></td><td>17</td><td>PAL 60 Hz/6.5 MHz</td><td></td></tr></table>	17 Systems		Function		1	PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders	8	NTSC 4.43/5.5 MHz	Playback from Special VCR's or DVD	2	PAL I	9	NTSC 4.43/6.0 MHz	3	PAL D, K	10	NTSC 4.43/6.5 MHz	4	SECAM B, G	11	NTSC 3.58/5.5 MHz	5	SECAM D, K	12	NTSC 3.58/6.0 MHz	6	SECAM K1	13	NTSC 3.58/6.5 MHz	7	NTSC M (NTSC 3.58/4.5 MHz)	14	SECAM I	Playback from Special Disc Players and Special VCR's or DVD			15	PAL 60 Hz/5.5 MHz			16	PAL 60 Hz/6.0 MHz				17	PAL 60 Hz/6.5 MHz			
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Receiving Channels (Regular TV)			VHF BAND 2-12 (PAL/SECAM B, K1) 0-12 (PAL B AUST.) 1-9 (PAL B N.Z.) 1-12 (PAL/SECAM D) 1-12 (NTSC M Japan) 2-13 (NTSC M USA)	UHF BAND 21-69 (PAL G, H, I/SECAM G, K, K1) 28-69 (PAL B AUST.) 13-57 (PAL D, K) 13-62 (NTSC M Japan) 14-69 (NTSC M USA)	CATV S1-S20 (OSCAR) 1-125 (USA CATV) C13-C49 (JAPAN) S21-S41 (HYPER) Z1-Z37 (CHINA) 5A, 9A (AUST.)																																																	
Aerial - Rear			VHF / UHF																																																			
Operating Conditions			Temperature : 5 °C - 40 °C Humidity : 5 % - 90 % RH (non-condensing)																																																			
Connection Terminals	AV1 Input	AUDIO L - R	RCA PIN Type × 2	0.5 V [rms]																																																		
		VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)																																																		
		S VIDEO	Mini DIN 4-pin	Y:1.0 V [p-p] (75 Ω) C:0.286 V [p-p] (75 Ω)																																																		
	AV2 Input	AUDIO L - R	RCA PIN Type × 2	0.5 V [rms]																																																		
		VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)																																																		
		COMPONENT	Y PB/CB, PR/CR	1.0 V [p-p] (including synchronization) ±0.35 V [p-p]																																																		
	Others	HDMI1/2 Input	TYPE A Connectors																																																			
		Audio Input for HDMI1	RCA PIN Type × 2	0.5 V [rms]																																																		
Monitor Output	AUDIO L - R	VIDEO	RCA PIN Type × 2	0.5 V [rms] (high impedance)																																																		
		VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)																																																		
Dimension (W × H × D)	Including TV stand		565 mm × 453 mm × 260 mm																																																			
	TV Set only		565 mm × 411 mm × 119 mm																																																			
Weight			10.0 kg Net																																																			

Note

- Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

WARRANTY - Australia only

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour if, in the opinion of Panasonic, the product is found to be faulty within the warranty period.
 2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or its territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
 3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
 4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:
 - (a) Video or Audio Tapes
 - (b) Video or Audio Heads and Stylus resulting from wear and tear in normal use
 - (c) Shaver Heads or Cutters
 - (d) Cabinet Parts
 - (e) User replaceable Batteries
 - (f) Thermal Paper, Toner/Ink Cartridges, Drums, Developer, Film (Ink/Ribbon), Film Cartridge, Printer Heads
 - (g) Microwave Oven cook plates.
 - (h) Kneader mounting shaft unit (bread bakery)
 5. If warranty service is required you should:
 - Telephone Panasonic's Customer Care Centre on 132600 or visit our website and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
 - Send or bring the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
 - Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:
 - (a) Picture tube (CRT) based Television Receivers (screen sizes greater than 66cm); Rear Projection TV's; Plasma/LCD televisions / displays (screen size greater than 103 cm)
 - (b) Convection/Combination Microwave Ovens
 - (c) Whiteboard (except portable type)
 6. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or re-mounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.
- Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.
- Unless otherwise specified to the consumer the benefits conferred by this express warranty are additional to all other conditions, warranties, guarantees, rights and remedies expressed or implied by the *Trade Practices Act 1974* and similar consumer protection provisions contained in legislation of the States and Territories and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such rights, remedies, obligations or liabilities.
- November 2005

THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

If you require assistance regarding warranty conditions or any other enquiries, please visit the **Panasonic Australia website**

www.panasonic.com.au or by phone on 132 600

If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited

ACN 001 592 187 ABN 83 001 592 187

Locked Bag 505, Frenchs Forest, NSW 2086

www.panasonic.com.au

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23-11-2005

WARRANTY - New Zealand only

WE WARRANT that the Panasonic Television that you have purchased is free from defects in material and workmanship under normal home use and service.

Accordingly, we undertake to repair, or at our option, replace without cost to the owner, either for material or labour, any part which within 12 months from the date of delivery is found to be defective, provided that the appliance has been used for domestic purposes only and in accordance with the instructions given in the Instruction Book and not been subjected to misuse, neglect or installed, dismantled, repaired or serviced by any other than an authorised Panasonic New Zealand Dealer or Panasonic New Zealand Authorised Service Centre.

NOTE

- Before reporting a fault, please ensure that you read the item "Troubleshooting" in the information section of your Panasonic Instruction Book.
- It is important to retain your proof of purchase as this will be required by the serviceman or retailer as proof of purchase date, should service be required.
- In the event of service being required, contact your Panasonic New Zealand retailer or Panasonic New Zealand Authorised Service Centre.

IMPORTANT

Any request for warranty service must be through an Authorised Panasonic New Zealand Service Centre who during the period of the warranty, undertakes to make any necessary adjustment and fit any replacement part supplied by the manufacturer, during normal working hours, or alternatively will arrange for such service to be provided by some other Panasonic New Zealand Authorised Service Centre.

NEW ZEALAND

Distributed in New Zealand by Panasonic New Zealand Limited

350 Te Irirangi Drive East Tamaki, Private Bag 14911, Panmure Auckland

Tel. 09 272 0100

Customer Care Center

Email: Customerservice@panasonic.co.nz

www.panasonic.co.nz

Customer's Record

The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number _____

Serial Number _____

Matsushita Electric Industrial Co., Ltd.

Web Site : <http://www.panasonic.co.jp/global/>

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